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OM protein - protein search, using sw model

Run on:

November 7, 2002, 10:03:24; search time 15.5455 Seconds (without alignments) 3931.234 Million cell updates/sec

US-09-125-005-6 3384 1 MAQSTATSPDGGTTFEHLWS......PDCKARKQPIKEEFTEAEIH 636 Title: Perfect score: Sequence:

Scoring table:

283138 seqs, 96089334 residues BLOSUM62 Gapop 10.0 , Gapext 0.5 Searched: 283138

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Total number of hits satisfying chosen parameters:

Post-processing: Minimum Match 1008 Maximum Match 1008 Listing first 45 summaries

Database :

pir_71:*
1: pir1:*
2: pir2:*
3: pir3:*
: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	cellular tumor ant	tumor	tumor	cellular tumor ant	ppresso			tumor suppressor p	c		cellular tumor ant	cellular tumor ant	tumor	hypothetical prote			~		_	probable transcrip	SEC31 protein - ye	SSC	hypothetical prote		hypothetical prote	SPR-1 protein - hu	Bassoon protein -	verprolin - yeast	there I are hard the said
SUMMARIES	8	JH0631.	S02193	S51648	JH0633	JC6176	A29376	S02192	JC6193	DNHU53	S06594	DNMS53	S38824	146226	T00074	T19361	H85335	T04518	T32008	T41547	T13283	S58782	A56577	T20369	A24354	T18311	S26638	T42761	S51342	_
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ф	Query				22.1	21.9	21.9	21.7	21.4	21.4	21.2	21.0	20.7	7.3	4.5	4.4	4.3	4.3	4.2	4.2	4.1	3.9	3.9	3.9	•	•	3.8		3.7	. 7
	Score	851.5	\sim	760.5	-	741.5	741	735.5	724.5	724.5	718.5	711.5	702		151.5				4	142	139.5	133	131.5	130.5	3	128	127.5	127	126	126
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RESULT 2 S02193

	peroxisome prolife	hypothetical prote	dachshund protein	versican precursor	hypothetical prote	serine/threonine-s	tumor suppressor p	nestin - human	Bassoon protein -	dachshund isoform	transcription acti	hypothetical prote	transcription coac	CREB-binding prote	eyelid - fruit fly	dachshund protein	
-	T02885 .	T40290	T13231	A55535	T04487	JW0051	A56155	S21424	T42730	T13230	A42091	T38495	S39162	S39161	T13049	T13232	
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:	125.5	125	125	124.5	124	124	124	123.5	123.5	123	123	123	123	123	123	122.5	
	30	31	32	33	34	35	36	37	38	33	40	41	42	43	44	4 5	

ALIGNMENTS

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A,Gene: p53
C;Superfamily: cellular tumor antigen p53
C;Seyworks: apoptosis; cell division control; DNA binding; homotetramer; nucleus; C;Keyworks: apoptosis; cell division control; DNA binding; hetatus predicted F;179,182.241.245/Binding site: zinc (Cys, His, Cys, Cys, Cys) #status predicted F;395/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; Accession: JH0633
R; Legros, Y.; McIntyre, P.; Soussi, T.
A; Title: The CDNA cloning and immunological characterization of hamster p53.
A; Reference number: JH0633; MUID:92210007
A; Accession: JH0633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cellular tumor antigen p53 - golden hamster
Alternate names: tumor-suppressor protein p53
C;Species: Mesocricetus auratus (golden hamster)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                            -PEHAASVPTHS-PYAQPSSTFDTM 109
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                                                                                                                                                                SPAPV-----IPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPI 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    127
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A;Residues: 1-396 <LEG>
A;Cross-references: GB:M75144; NID:g191414; PIDN:AAA37085.1; PID:g191415
A;Experimental source: Kidney, strain MP1
C;Genetics:
                                                                                                       77 -PAPATSWPLSSFVPSQKTYPGNYGFRLGFLQSGTAKSVTCTYSPSLNKLFCQLAKTCPV
                                                                                                                                                                                                                                                              QIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNN
                                                                                                                                                                                                                                                                                    LSQYVDDPVTGRQSVVVPYEPPQVGTEFTTLLYNFMCNSSCVGGMNRRPILIITLEMRD
                                                                                                                                                                                                                                                                                                                                                                             GQVLGRRSFEGRICACPGRDRKADEDHYREQ-QALNESSAKNGAASKRAFKQSPPAVPAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18 TFSDLWKLLPPNNVLSTLPSS------DSIEELFLSENVA------GWLEDPGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74 QMSSRAASASPYTPEHAASVP---THSPYAQPSSTFDTMSPAPV---IPSNTDYPGPHHF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60 ALQCSAAAAAPAP----AEDPVAETPAPVASAPAT-----PWPLSSSVPSYKTYQGDYGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EVTFOOSSTAKSATWIYSPLLKKLYCOIAKTCPIOIKVSTPPPPGTAIRAMPVYKKAEHV
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                                  45;
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                                Indels
         Pred. No. 2.7e-45;
; Mismatches 105;
                                                                            SVMAQFNLLSSTMDQMSSRAASASPYT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                401 HLQP---PSYGPVLSPMNKVHG 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361 HLKSKKRPSPSCHKKPMLKREG 382
         Local Similarity 44.2%; Pr
nes 169; Conservative 63;
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                                                                                                                                                                                                                                                                      A; Status: preliminary
A; Status: preliminary
A; Modecule types mRNA
A; Modecule types mRNA
A; Modecule types mRNA
A; Modecule types mRNA
A; Cross-references: EMBL:X81704; NID:g602332; PIDN:CAA57348.1; PID:g602333
C; Superfamily: cellular tumor antigen p53
C; KGywords: apoptosis; cell division control; DNA binding; homotetramer; phosphoprotein; F; 186, 171, 231, 235, Minding site: zinc (Cys, His, Cys, Cys) #status predicted
F; 385/Binding site: phosphory1-RNA (Ser) (covalent) #status predicted
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R. Dequiedt, F.; Willems, L.; Burny, A.; Kettmann, R.
Submitted to the EMBL Data Library, September 1994
A. Description: Nucleotide sequence of the ovine p53 tumor-suppressor gene cDNA and its
A. Reference number: S51648
A. Accession: S51648
cellular tumor antigen p53 - chicken
NiAlternate names: nuclear oncoprotein p53
C;Species: Gallus gallus (chicken)
C;Species: Gallus gallus (chicken)
C;Species: Gallus gallus (chicken)
C;Species: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: SO2199
Fiscussi, T.; Begue, A.; Kress, M.; Stehelin, D.; May, P.
Nucleic Acids Res. 16, 11383, 1988
A;Tille: Nucleotide sequence of a cDNA encoding the chicken p53 nuclear oncoprotein.
A;Reference number: SO2193; MUID:89083584
A;Accession: SO2193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7;
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Species: Bos primigenius taurus (cattle)
Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  281 A-----GGVAKRA--MSPP-TEAPEPPKKRVLNPDNEIFYLQVRGRRKYEMLKEINEA 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NFMCNSSCVGGMNRRPILITITLEMRDGOVLGRRSFEGRICACPGRDRKADEDHYREQQA 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75 MSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQQS 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTTLLY 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         315 LNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGRENFEILMKLKES 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47 SDPPPPPPPPPLPLAAAAPPPLNPPTPPRA-----APSPVVPSTEDYGGDFDFRVGFVEA 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKRC 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ------SPLEP 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15 FEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMDQ 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46;
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                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 23.0%; Score 778; DB 1; Length 367; Best Local Similarity 44.1%; Pred. No. 1.5e-46; Matches 164; Conservative 56; Mismatches 106; Indels
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331 LOLAEGGSAPRP 342
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                                                                                                                                                                                                                                   Molecule type: mRNA
Residues: 1-367 <SOU>
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R; Soussi, T.; de Fromentel, C.C.; Mechali, M.; May, P.; Kress, M.
Oncogene 1, 71-78, 1987
A; Title: Cloning and characterization of a CDNA from Xenopus laevis coding for a prot
A; Reference number: A29376; WUID:88143684
A; Reference number: A29376
                                                                                                                                                                                                                                                                                                                                                                                                     A;Title: Overexpression of wild-type p53 interferes with normal development in Xenopu A;Reference number: I51639; WUID:94134403 A;Accession: S61531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Superfamily: cellular tumor antigen p53
C;Keywords: apoptoals; cell division control; DNA binding; homotetramer; nucleus; pht
E;150,153,213,213,217,Binding site: zinc (Cys. His, Cys. Cys.) *status predicted
E;362/Binding site: phosphoryl-RNA (Ser) (covalent) *status predicted
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N'Alternate names: gene p53 protein; nuclear oncoprotein p53
C;Species: Rattus norvegicus (Norway rat)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: S02192; S41149
   Species: Xenopus laevis (African clawed frog)
loate: 10-Sep-1999 #sequence_revision 10-Sep-1999
Accession: A20376; S61531; S72313; IS1639
Soussi, T : de Fromentel, C.C.; Mechall, M.; May, P.; Kress, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;MOlecule type: mRNA
A;Residues: 1-51,'S',53-70,72-293,295-363 <HOW>
A;Cross-references: EMBL:X77546; NID:9468513; PIDN:CAA54672.1; PID:9468514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: mRNA
A;Residues: 1-293,295-353 <HOE>
A;Cross-references: EMBL:X77546; NID:g468513; PIDN:CAA54672.1; PID:g468514
R;Hoever, M.; Clement, J.; Medilch, D.; Montenarh, M.; Knochel, W.
submitted to the EMBL Data Library, March 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46 DSSMDVFHLEGMTTSVMAQFNLLSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQPSST 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .06 FDTMSPAPVIPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKV 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16 STPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGQ-SAPASHLIRVEGNNLSQ 224
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                                                                                                                                                                                                                                                                                                                             A; Cross-references: EMBL: X05191; NID: 964961; PIDN: CAA28821.1; PID: 964962
                                                                                                                                                                                                                                                                                                                                              R; Hoever, M.; Clement, J.H.; Wedlich, D.; Montenarh, M.; Knoechel, Oncogene 9, 109-120, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 363;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Score 741; DB 1;
; Pred. No. 5.5e-44;
54; Mismatches 92;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   49 -ADMTVLO-EGLMGN---------
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41.7%;
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Best Local Similarity 41.71
Matches 169; Conservative
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                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-363 <SOU>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tumor suppressor protein p53 - Chinese hamster
C; Species: Cricetulus griseus (Chinese hamster)
C; Species: Cricetulus griseus (Chinese hamster)
C; Species: 11-87-1997 #sequence_revision 09-May-1997 #text_change 23-Jul-1999
C; Accession: JG61/6
R; Lee, H.; Larner, J.M.; Hamlin, J.L.
Gene 144, 177-183, 1997
A; Title: Cloning and characterization of Chinese hamster p53 cDNA.
A; Reference number: JG61/6; MUD:97183659
A; Concents: 11ver
A; Accession: JG61/6
A; MACCession: JG61/6
A; M
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                                                                 306
                                                                                                   30 SDCTTIHYNYMCNSSCMGGMNRRPILTITLEDPSGNLLGRNSFEVRICACPGRDRRTEE 289
                                                                                                                                                                                             362
                                                                                                                                                                                                                                      290 KNFOKKGEPCPELPPKSAKRALPTNTSSSPQP------KRRTLDGEYFTLKIRGQ 338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74 QMSSRAASASPYTPEHAASVPTHSPYAQPSSTEDTMSPAPVIPSNTDYPGPHHFEVTFQQ 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67 AAASTAEDPVIETPAPVASAPA-TPWPLSSS------VPSYKTFQGDYGFRLGFLH 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       134 SSTAKSAFWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKR 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             194 CPNHELGRDFNEGGS-APASHLIRVEGNNLSQYVDDPVIGRQSVVVPYEPPQVGTEFII 252
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           293 GEPCPELPPKSAKRALPINTS--SSPP------PKKKYLDGEYFTLKIRGHERFKMF 341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           173 TEVVRRCPHHERS---SEGDGLAPPQHLIRVEGNMHAEYLDDKQTFRHSVVVPYEPPEVG
                                                                 TEFTTILYNFMCNSSCVGGMNRRPILIITLEMRDGQVLGRRSFEGRICACPGRDRKADE
                                                                                                                                                                                          307 DHYREQ----QALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVRGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 21.9%; Score 741.5; DB 2; Length 393; Best Local Similarity 43.7%; Pred. No. 5.7e-44; Matches 162; Conservative 57; Mismatches 111; Indels 41;
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A29376
cellular tumor antigen p53 - African clawed frog
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C;Superfamily: cellular tumor antigen p53
C;Keywords: liver; tumor
                                                                                                                                                                                                                                                                                                                      363 ENFEILMKLKESLELME 379
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ERFKMFQELNEALELKD 355
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342 QELNEALELKD 352
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Milterate names: cellular phosphoprotein p53; transformation supp. (C)Species: Homo sapiens (man) phosphoprotein p53; oncoprotein p53; transformation supp. C)Species: Homo sapiens (man) (man) c)Species: Homo sapiens (man) 
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A; Residues: 1-393 <LAM>
A; Residues: 1-393 <LAM>
A; Cross = 1-393 <LAM
A; Title: A variation in the structure of the protein-coding region of the human p53 of A; Reference number: JT0436; MUID:89108008
A; Reference number: JT0436; MUID:89108008
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A; Residues: 1-393 <BUCI>
A; Cross-references: EMBL:M22898; NID:g189474
A; Mote: this 72-Arg allele appears to be about 5 times more frequent than the 72-Pro
A; Accession: JT0436
                                                                                                                                                                                                                                                10;
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A;Note: this 72-Pro allele was found in both normal and malignant cell lines
R;Chumakov, P.M.; Almazov, V.P.; Jenkins, J.R.
R;Chumakov, P.M.; Almazov, V.P.; Jenkins, J.R.
A;Rcherence to the EMBL Data Library, August 1990.
A;Reference number: S40773
A;Accession: S40773
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RAASASPYTPEHAASVP-THSPYAQPSSTFDTMSPAPV-----IPSNTDYPGPHHFE 128
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            309 YREQQALNESSAKNG-----AASKRAFKQSPPAVPALGAGVKKRRHGDEDTYYLQVR 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  386 FR------KKGEPCPELPPGSSKRAL----PTTTTDSSPQTKKKPLDGEYFILKIR 331
                                                                                                                                                                                                                                                                                                                      21 SLEP---DSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMDQMSS 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     226 CITIHYNYMCNSSCMGGMNRRPILTITILEDSSGNLLGRNSFEVRVCACPGRDRRFEEEN
                                                                                                                                                                                                                                                                                                                                                                                                 9 SLEPPLSQETFSDLWKLLPENNL-------LTTSLNPPVDDLLSAED----
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                                                                                                                                                                                                                                            57;
                                                                                                                                                                     Length 391;
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                                                                                                                                                             Ouery Match 21.4%; Score 724.5; DB 2; Best Local Similarity 43.5%; Pred. No. 8.6e-43; Matches 165; Conservative 54; Mismatches 103;
        A;Gene: p53
C;Superfamily: cellular tumor antigen p53
C;Reywords: tumor
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A; Residues: 1-71,'P',73-393 <BUC2>
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A; Residues: 1-173,'W',175-391 <br/>
A; Cross references: EMBL:L07909
A; Note: the nucleotide sequence was submitted to the EMBL Data Library, December 1992 C; Genetics: 25,2; 32,3; 123,3; 123,1; 259,2; 305,1; 329/3; 365,2
A; Introns: 25,2; 32,3; 123,3; 185,1; 259/2; 305,1; 329/3; 365,2
C; Superfamily: cellular tumor antigen p53 C; Reywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus; phosph F; 174,177,236,240/Binding site: zinc (Cys, His, Cys, Cys) #status predicted F; 390/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Soussi, T.; de Fromentel, C.C.; Breugnot, C.; May, E.
Nucleic Acids Res. 16, 11384, 1988
A;Title: Nucleotide sequence of a cDNA encoding the rat p53 nuclear oncoprotein.
A;Reference number: S02192; MUID:89083585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12;
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C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 11-Apr-1997 #sequence_revision 09-May-1997 #text_change 20-Jun-2000
C;Accession: JCG193
R:Le Goas, P.; May, P.; Ronco, P.; de Fromentel, C.C.
Gene 185, 169-173, 1997
A;Title: CDNA cloning and immunological characterization of rabbit p53.
A;Reference number: JCG193; MUID:97208869
A;Accession: JCG193
A;Accession: JCG193
A;Accession: JCG193
A;Accession: JCG193
A;CEAPA
A;Residues: 1-391 <LEAP
A;Residues: 1-391 <LEAP
C;Genetics: EMBL:X90592; NID:g1532043; PIDN:CAA62216.1; PID:g1532044
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  174 AIRAMPVYKKAEHVTDVVKRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGR 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               67 LLSSTMDOMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPV------ 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QSVVVPYEPPQVGTEFTTILYNFMCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGR 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            212 HSVVVPYEPPEVGSDYTTHYKYMCNSSCMGGMNRRPILTITLEDSSGNLLGRDSFEVR 271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ICACPGRDRKADEDHYREQQ ---- ALNESSAKNGAASKRAFKQSPPAVPALGAGVKKRRH 349
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28
                                                                                                                                                                                      A; Molecule type: mRNA
A; Residues: 1-391 <SOU>
A; Cross-references: EMBL:X13058; NID:956828; PIDN:CAA31457.1; PID:956829
R; Hulla, J.E.; Schneider, R.P.
Nucleic Acids Res. 21, 713-717, 1993
A; Title: Structure of the rat p53 tumor suppressor gene.
A; Reference number: S41149; MUID:93181268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVF-----HLEGMTTSVMAQFN 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                115 -IPSNTDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPFGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18 TFSCLWKLLPPDDI---LPTTA-----TGSPNSMEDLFLPQDVAELLEG------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ------TEAPAPASATPWPLSS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 21.7%; Score 735.5; DB 1; Length 391; Best Local Similarity 42.8%; Pred. No. 1.5e-43; Matches 167; Conservative 55; Mismatches 87; Indels 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         350 GDEDTYYLQVRGRENFEILMKLKESLELME 379
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LDGEYFTLKIRGRERFEMFRELNEALELKD 350
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Best Local Similarity
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A. Title: Isolation and characterization of a human p53 cDNA clone: expression of the hum A; Reference number: S42669; MUID: 85126934
A; Accession: S42669; MUID: 85126934
A; Accession: S42669
A; Molecule type: mRNA
A; Molecule type: mNNA
A; Molecule type: mUID: 85230577
A; A; Accession: A22837; MUID: 85230577
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A;Readidues: 1.71, 7.73-393 <ZAK>
A;Cross-references: EMBL:X02469; EMBL:M60950; NID:935209; PIDN:CAA26306.1; PID:935210
R;Harlow, E.; Williamson, N.M.; Ralston, R.; Helfman, D.M.; Adams, T.E.
Mol. Cell. Blol. S; 1601-1610, 1985
A;Title: Molecular cloning and in vitro expression of a cDNA clone for human cellular
A;Reference number: A55060; MUID:85267676
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A; Molecule type: mRNA
A; Readdues: 1-71, P° /, 73-272, 'H', 274-393 <HAR>
A; Readdues: 1-71, P° /, 73-272, 'H', 274-393 <HAR>
A; Readdues: 1-71, P° /, 73-272, 'H', 274-393 <HAR>
A; Experimental source: GB: (GB: R03199); ND: 9189479
A; Experimental source: clone pR4-2, cell line A431
R; Harris, N.; Brill, E.; Shohat, O.; Prokocimer, M.; Wolf, D.; Arai, N.; Rotter, Molecular basis for heterogeneity of the human p53 protein.
A; Reference number: A93086; MUID: 87089826
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A; Readdues: 1-71, 79.73-78, 77, 40-393 <HARZ>
A; Cross-teferences: EMBL:M14695; NID:9339815; PIDN:AAA61212.1; PID:9339816
A; Experimental source: clone p53-H-19, transformed hybridoma SV-80 cell line
R; MatLashewski, G.J.; Tuck, S.; Pim, D.; Lamb, P.; Schneider, J.; Crawford, L.V.
Mol. Cell. Biol. 7, 961-963, 1987
A; Title: Primary structure polymorphism at amino acid residue 72 of human p53.
A; Reference number: S42452; MUID:87144273
A;Cross-references: EMBL:X54156; NID:g35213; PIDN:CAA38095.1; PID:g35214
R;Matlashewski, G.; Lamb, P.; Pim, D.; Peacock, J.; Crawford, L.; Benchimol, S.
EMBO J. 3, 3257-3262, 1984
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A;Residues: 1-78, 'T', 80-393 <HARL>
A;Residues: 1-78, 'T', 80-393 <HARL>
A;Cross-references: EMBL:M14694; NID:9339813; PIDN:AAA61211.1; PID:9339814
A;Experlmental source: clone p53-H-1, transformed hybridoma SV-80 cell line
A;Accession: B25397
A;Molecule type: mRNA
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A;Cross references: EMBL:X60011; NID:9506434; PIDN:CAA42626.1; PID:9506435
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A;Cross-references: EMBL:X60012; NID:9506436; PIDN:CAA42627.1; PID:9506437
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A,Molecule type: mRNA; DNA
A,Residues: 6671, 'y-,73-79 < MKI2>
A)Experimental source: clone lambda Cli3
A;Experimental source: clone lambda cli3
A;Note: 72-Cys was also found, and appears to represent a polymorphism
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A; Residues: 66-79 <MKI3>
A: Experimental source: clone J6K
B; Experimental source: G.J.; Shanahan, F.; Vousden, K.H.; Crook, T.
EMBO J. 10, 2879-2887, 1991
A; Title: P53 1s frequently mutated in Burkitt's lymphoma cell lines.
A; Reference number: I38082; MUID:92007731
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A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A; Scale type: mRNA
A; Residues: 1.23, 70, 255-393 <FIL>
A; Cross-references: EMBL; X60020; NID:9506452; PIDN:CAA42635.1; PID:9506453
A; Note: all sequences: Bubmitted to the EMBL,GenBank/DDBJ databases June 1991
R; Futreal, P.A.; Barrett, J.C.; Wiseman, R.W.
Nutleic Acids Res: 19, 6977, 1991
A; Title: An Alu polymorphism intraqenic to the TP53 gene.
A; Reference number: 138093; MUID:92107726
A; Reference number: 138093
A; Residues: 1.393 <FUPS
A; Residues
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                                           A;Molecule type: mRNA
A;Residues: 1-245,'T',247-393 <F04>
A;Cross-references: EMBL:X60013; NID:g506438; PIDN:CAA42628.1; PID:g506439
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Residues: 1-212,'0',214-393 <P10>
Cross-references: EMBL:X60019; NID:9506450; PIDN:CAA42634.1; PID:9506451
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Residues: 1-247,'Q',249-393 <F06>
Cross-references: EMBL:X60015; NID:g506442; PIDN:CAA42630.1; PID:g506443
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Cross-references: EMBL:X60016; NID:9506444; PIDN:CAA42631.1; PID:9506445
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;Residues: 1-247,'Q',249-393 <F08>
;Cross-references: EMBL:X60017; NID:g506446; PIDN:CAA42632.1; PID:g506447
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Cross-references: EMBL:X60018; NID:9506448; PIDN:CAA42633.1; PID:9506449
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A;Cross-references: GB:S41969; NID:g1679931; PIDN:AAB19324.1; PID:g232814
A;Accession: 178850
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A; Residues: 246-247, W, 249-250 < YAM>
A; Residues: 264-247, W, 249-250 < YAM>
A; Note: Sequence extracted from NCBI backbone (NCBIN:63157, NCBIP:63158)
A; Note: mutation from a. Liver metastasis of a gastric cancer
B; Hensel, C.H.; Xiang, R.H.; Sakaguchi, A.Y.; Naylor, S.L.
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A;Molecule type: DNA
A;Residues: 274-277,'S',279-282 <HEN2>
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A;Molecule type: DNA
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;Molecule type: mRNA
;Residues: 1-71,'P',73-237,'Y'.239-303
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A; Status: translated from GB/EMBL/DDBJ
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A:Status: translated from GB/EMBL/DDBJ
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A; Residues: 1-236, 1',
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Length 393;

DB 1;

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21.2%; Sc.larity 42.1%; Pr
Conservative 58;
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                               Query Match
Best Local Similarity
Matches 160; Conserv
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                                                                                                                          Status: translated from GB/EMBL/DDBJ
Molecule type: mRNA
Residues: 327-331, DQTSFOXENC' CCHO>
Residues: 327-331, DQTSFOXENC' CCHO>
GCOSS references: GB:S66666, NID:9436292; PIDN:AAB28601.1; PID:9436293
GCOSS references: GB:S666666, NID:9436292; PIDN:AAB28601.1; PID:9436293
FORCES mucant sequence with altered splicing and termination expressed in Molt-4 T-lymp
Petersen, G.; Song, D.; Huegle-Doerr, B.; Oldenburg, I.; Bautz, E.K.F.
31. Gen. Genet, 249, 425-431, 1995
A. Title: Mapping of linear epitopes recognized by monoclonal antibodies with gene-fragme
Reference number: S60151; MUID:96133682
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C;Superfamily: cellular tumor antigen p53
C;Reywords: apoptosis; cell division control; DNA binding; homotetramer; nucleus; phosph
F:176,179,238,242/Painding site: zinc (Cys. His, Cys. Cys) #status predicted
F:392/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Title: Nuclear and nucleolar targeting sequences of c-erb-A, c-myb, N-myc, p53, HSP70,
                                                                        tumor suppressor gene in the Molt-4 T-lymphobl
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Nucleic Acids Res. 17, 8375, 1989
A;Title: Nucleotide sequence of a cDNA encoding the monkey cellular phosphoprotein p53.
A;Reference number: S06594; MUID:90045967
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HHFEVTFQQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKA 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VGTEFTTILYNFMCNSSCVGGMNRRPILIITLEMRDGQVLGRRSFEGRICACPGRDRKA 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEDHYREQQALNESSAKNG-----AASKRAFKQSPPAVPALGAGVKKRRHGDEDTYY 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EEENLR------KKGEPHHELPPGSTKRALPNNTSSSPQ-----PKKKPLDGEYFT 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74 OMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDT-MSPAPV-----IPSNTDYPGP 124
A;Cross-references: GB:S41977; NID:g1679932; PIDN:AAB19325.1; PID:g232816 R;Chow, V.T.; Quek, H.H.; Tock, E.P.C. Cancer Lett. 73, 141-148, 1993
A;Title: Alternative splicing of the p53 tumor suppressor gene in the Molt A;Reference number: 152681; MUID:94036762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 21.4%; Score 724.5; DB 1; Length Best Local Similarity 41.0%; Pred. No. 8.7e-43; Matches 157; Conservative 57; Mismatches 104; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18 TFSDLWKLLPENNVLSPLP-----
                                                                                                                                                                                                                                                                                                              A; Reference number: S60151; MUID: 96133
A; Accession: S60153
A; Molecule type: DNA
A; Residues: 3-44 <PET>
B; Dang, C.V.; Lee, W.M.F.
J. Biol. Chem. 264, 18019-18023, 1989
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Residues: 1-393 <RIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Accession: S06594
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A;Molecule: type:·DNA
A;Residues: 1-134,'V',136-390 <BIE>.
A;Cross-references: GB:X00876; NID:9871420; PIDN:CAA25420.1; PID:9871421; GB:X01237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: Immunologically distinct p53 molecules generated by alternative splicing. A;Reference number: S38822; MUID:87064640
A;Accession: S38822
A;Aocession: S38822
A;Molecule type: mRNA
A;Residues: 1-390 <ARAl>
A;Cross-references: EMBL:M13872; NID:g200198; PIDN:AAA39881.1; PID:g200199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N'Alternate names: oncoprotein p53
C;Species: Mus musculus (house mouse)
C;Species: Mus usuculus (house mouse)
C;Date: 28-Aug-1985 #sequence_revision 04-Oct-1996 #text_change 11-May-2000
C;Date: 28-Aug-1985 #sequence_revision 04-Oct-1996 #text_change 11-May-2000
C;Date: 28-Aug-1985 #sequence_revision 04-Oct-1996 #text_change 11-May-2000
C;Accession: A27739; Sofi336; A02684; S38823; S38823; S40014; I48703
A;Rille: Analysis of the gene coding for the murine cellular tumour antigen p53.
A;Reference number: A22739; MUID:85027173
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A; Motecule types: mRNA
A; Mesdudes: 1-159, MR, 161-167, G', 169-233, 'I', 235-390 <ZAK>
A; Cross-references: GB: X01237; GB: K01700; NID: 953575
R; Aral. N; Nomura, D.; Yokotek, K.; Wolf, D.; Brill, E.; Shohat, O.; Rotter, V.
A01. Cell. Biol. 6, 323-3239, 1986
A; Title: Immunologically distinct p53 molecules generated by alternative splicif
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Bioorg. Khim. 13, 1691-1694, 1987
A;Title: Primary structure of DNA complementary to murine oncoprotein p53 mRNA.
A;Reference number: S06336; MUID:88221682
A;Accession: S06336
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A; Residues: 1-134, 'V', 136-390 <CHU>
B; Zakut-Houri, R.; Oreh, M.; Bienz, B.; Lavie, V.; Hazum, S.; Givol, D.
Riture 306, 594-597, 1983
A; Title: A single gene and a pseudogene for the cellular tumour antigen p53.
A; Reference number: A02684; MUID:84068204
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                                    Gaps
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                                                                                                                                                                 18 TFSDLWKLLPENNVLSPLPSQA------VDDLM-----LSPDDLAQW-LTEDPGP
                                                                                                                                                                                                                                  74 QMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAP-----VIPSNTDYPGPHHF
                                                                                                                                                                                                                                                                           EVTFOOSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHV
                                                                                                                                                                                                                                                                                                                                                                                                                                        110 RIGFLHSGTAKSVICTYSPDINKMFCQLAKTCPVQLWVDSTPPPGSRVRAMAIYKQSQHM
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d. No. 2.3e-42;
Mismatches 103;
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A; Residues: 1-381 <HAN>
A; Cross-references: EMBL:M13874; NID:g200202; PIDN:AAA39883.1; PID:g200203
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, July 1988
C;Comment: This sequence, produced by alternative splicing of the tenth intron, lacke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and normal cells of different t
                                                                                                                     C; Species: Mus musculus (house mouse)
C; Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 23-Jul-1999
C; Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 23-Jul-1999
C; Accession: 538824 D; Yokota, K.; Wolf, D.; Brill, E.; Shohat, O.; Rotter, V. Mol. Cell. Biol. 6, 3232-3239, 1986
Mol. Cell. Biol. 6, 3232-3239, 1986
Myritle: Immunologically distinct p53 molecules generated by alternative splicing. A; Reference number: 538822; MUID:87064640
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F;313-319/Region: uclear location signal
F;319-337/Region: terramer association
F;7,9,12,18,23,37/Binding site: phosphate (Ser) (covalent) #status predicted
F;73,176,235,239/Binding site: zinc (Cys, His, Cys, Cys) #status predicted
F;312/Binding site: phosphate (Ser) (covalent) (by cdc2 kinase) #status predicted
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                                                                                                                                                                                                                                                                                                                                                A Molecule type: mRNA
A; Residues: 1-381 <ARNA
A; Residues: 1-381 <ARNA
A; Cross-references: GB:MJ874; NID:g200202; PIDN:AAA39883.1; PID:g200203
A; Cross-references: GB:MJ874; NID:g200202; PIDN:AAA39883.1; PID:g200203
R; Han, K.A.; Kulesz-Martin, M.F.
Nucleic Acids Res: 20., 1979-1981, 1992
A; Reference number: S35478; MUID:92253421
A; Article: Alternatively spliced p53 RNA in transformed and normal cells of A; Reference number: S35478; MUID:92253421
A; Actus: nucleic acid sequence not shown; translation not shown
A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21 TFSGLWKLLPPE----DILPSPHCMDDLLLPQD--VEEF-FEGPSEAL-----
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69; Mismatches 114; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reywords: alternative splicing; phosphoprotein; zinc; 1-44/Domain: transcription activation *status predicted; 16-26/Region: conserved region I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Domain: DNA-binding core #status predicted <DBC>
                                                                                            cellular tumor antigen p53, minor splice form - mouse
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; Superfamily: cellular tumor antigen
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Matches 164; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              **Restdues: 1.47, 'R',49-78,'0W',82-390 <RES>
**Cross-references: EMBL:X00741; NID:953570; PIDN:CAA25323.1; PID:953571
**Comment: This DNA-binding protein plays an essential role in the regulation of cell discomment: This DNA-binding protein plays an essential role in the regulation of cell discomment: The terramer association region may exhibit a beta-turn, beta-sheet, beta-turn; Superfamily: cellular tumor antigen p53
***Reywords: approals; cell division control; DNA binding; homotetramer; phosphoprotein; 1.44/Domain: transcription activation #status predicted <TRA>
***199-289/Domain: DNA-binding core #status predicted <DBC>
                                                                                                                                                                                                                                                                                                                                                         Title: Cloning and expression analysis of full length mouse cDNA sequences encoding Reference number: 148703; MUID:84272240
Accession: 148703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F;267-283/Region: conserved region V
F;313-319/Region: nuclear location signal
F;313-319/Region: tetramer association
F;7,9,12,18,23/37/Binding site: phosphate (Ser) (covalent) #status predicted
F;7,9,12,18,237/Binding site: zinc (Cys, His;Cys;Cys) #status predicted
F;313,176,235,239/Binding site: zinc (Cys, His;Cys;Cys) #status predicted
F;312/Binding site: phosphate (Ser) (covalent) (by cdc2 kinase) #status predicted
F;389/Binding site: phosphoryl-RNA (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12;
                                                                                                                     O.; Rotter, V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RVSGAPAAQDPVTETPGPVAPAPA-TPW--PLSSF------VPSQKTYQGNYGFHLGF 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;Molecule type: mRNA
;Residues: 1-167, G',169-390 <ARA3>
;Cross-references: EMBL:M13873; NDI:q200200; PIDN:AAA39882.1; PID:g200201
;Jenkins, J.R.; Rudge, K.; Redmond, S.; Wade-Evans, A.
ucleic Acids Res. 12, 5609-5626, 1984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    132 QQSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVV 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ILYNFWCNSSCVGGMNRRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDHYRE 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QOALNESSAKNGAASKRAFKOSPPAVPALGAGVKKRRHGDEDTYYLQVRGRENFEILMKL 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OMSSRAASASPY -- TPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTF 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KRCPNHELGRDFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTT 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 TFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQFNLLSSTMD 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 TFSGLWKLLPPE----DILPSPHCMDDLLLPQD--VEEF-FEGPSEAL------
A; Accession: S38823
A; Molecule type: mRNA
A; Realdues: 1-167, °C', 169-233, ′I', 235-390 <ARA2>
A; Realdues: 1-167, °C', 169-133, °I', 235-390 <ARA2>
A; Cross-references: EMBL: M13873
B; Arai, N.; Nomura, D.; Yokota, R.; Wolf, D.; Brill, E.; Shohat, submitted to the EMBL Data Library, July 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21.0%; Score 711.5; DB 1; Length 43.2%; Pred. No. 6.9e-42; Atsive 64; Mismatches 104; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              conserved region III
conserved region IV
L3 loop
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Best Local Similarity 43.23
Matches 159; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              342 NEALELKD 349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Molecule type: mRNA
Residues: 1-47,'R',4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            F;160-192/Region:
F;168-178/Region:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F; 231-252/Region:
F; 233-248/Region:
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OY 120DYPGPHHFEVTFOQSSTAKSATWTVSPLLKKLYCOIAKTCPIQIKV 165	OY 166 STPPPPGTAIRAMPYYKRAEHVTDVVKRCP	OY 570	N. Ban	A; Wolecule type: DNA A; Rosidues: 1-925 < WILL> A; Cross-references: EMBL:278415; PIDN:CAB01670.1; GSPDB:GN00028; CESP:C17G1.4 A; Experimental source: clone C17G1 C; Genetics: A; Genetics: X A; Map position: X A; Map position: X A; Map position: X A; Match C; Superfamily: collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watch C; Superfamily: collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watch C; Superfamily: Collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watch C; Superfamily: Collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watch C; Superfamily: Collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watch C; Superfamily: Collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watch C; Superfamily: Collagen alpha 1(1) chain; fibrillar collagen carboxyl-terminal homolocys watches 135; Conservative 74; Mismatches 232; Indels 185; Gaps 32;
OY 372 KESLELMELVPOPLVDSYRQQQULLQRP-SHLQPPSY 407 	RESULT 13 146226 cellular tumor antigen p53 - dog (fragment) C5.Deteis: Can.15 lupus familiaris (dog) C5.Date: 21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change 05-May-2000 C5.Date: 21-Feb-1997 #sequence_revision 2006 C5.Date: 21-C5-May-2000 C5	Query Match Query Match Best Local Similarity 61.5%; Pred. No. 1.1e-10; Matches 48; Conservative 13; Mismatches 16; Indels 1; Gaps 1; Qy 183 KAEHVTDVVKRCPNHELGRDFNEGGSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEP 242 : : : : : : : : : : : : :	RESULT 14 T00074 T00074 T00074 T00074 T00074 C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Date: 22-Jan-1999 #sequence_revision 22-Jan-1999 #text_change 21-Jul-2000 C;Accession: T00074 EX.SEMI, N.; Oblita, M.; Nagase, T.; Ishikawa, K.; Miyajima, N.; Nakajima, D.; Nomura, DNA Res. 4, 345-349, 1997 A;Title: Characterization of CDNA clones in size-fractionated CDNA libraries from hu A;Reference number: 214085; MUID:98116662 A;Accession: T00074 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: mRNA A;Residues: 1-903 <seex> A;Cross-references: EMBL:AB007929; NID:93413881; PIDN:BAA32305.1; PID:93413882 A;Experimental source: brain C;Genetics: A;Note: KIAA0460</seex>	Query Match 4.5%; Score 151.5; DB 2; Length 903; Best Local Similarity 21.1%; Pred. No. 0.018; Actobes 175; Conservative 75; Mismatches 253; Indels 327; Gaps 45; Qy 3 QSTATSPD

	898 TOMEGIPOVRWYCPSCESOFRPMOLO 923	đ
	495 SFLTGLGCPNCIEYFTSQGLQ 515	οy
897	CKNVYHRECTRISPSAA	q
494	454 NNHGHAVPANGEMSSSHSAQSNVSGSHCTPPPPYHADPSLV 4	οy
840	792 PMANHMGGMQPMNGTPTEGPTVNNIGLNSNNAAGLPPLSLRSQGPDGSQ 8	g
453	409 PVLSPMNKVHGGMNKLPSVNQLVGQPPPHSSAATPNLGPVGP-GML 4	δλ
791	732 MQKMQQQQMAAQQQMSRWGGSGPSSAGPGGSQLPSLSAPSLQRADSWPQLPSQQPPMGG 7	셤
408		ð
731		a
360	305 DEDHYREQOALNESSAKNGAASKRAFKOSPPAVPALGAGVKKRRHGDEDTYYLQVR 3	δŏ
682	633 QGNPYFDPRYNRMVPSQTSHGPPLLSRSQSMHTPMISPNFNASQPSTSGR 6	q
304		ογ
. 632	594 PQVEKHTFSRKRQQLRVPYPEGINSHTPPTEPNTFGFM 6	qq
244		Qγ
593	534 SANQISTRPKTSPQKKKHEDGVPEPPTADIPFTTVTHYELPAAMFLRDILHVGPNDKVH 5	g
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533		අ
152	103 SSTEDIMSPAPVIPSNIDYPGPHHFEVTFQQSSTAKSATWTYSPLLKKLY 1	ď
478	429 GSSPMGSSLMPLNGQYPSMTQNMQSPASTSMEPTFKEPAVPI-RHSPSQMP 4	g
102	43 GGTDSSMDVFHLEGMTTSVMAQFNLLSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQP 1	δ

Search completed: November 7, 2002, 10:14:36 Job time: 20.6566 secs